	Application No.	Applicant(s)	, S.
Notice of Allowability	10/050,199	GRAY ET AL.	
	Examiner	Art Unit	
	Ling-Siu Choi	1713	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not incl	uded
1. This communication is responsive to September 13, 2004.			
2. The allowed claim(s) is/are <u>10</u> .			
3. The drawings filed on are accepted by the Examine	г.		
4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have			
Certified copies of the priority documents have			
Copies of the certified copies of the priority doc			ication from the
International Bureau (PCT Rule 17.2(a)).	dimense have been received in this	national stage appli	cation from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submi	ENT of this application. tted. Note the attached EXAMINER.	''S AMENDMENT OF	
informal Patent APPLICATION (PTO-152) which give	s reason(s) why the oath or declara	ation is deficient.	
6. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.		
(a) including changes required by the Notice of Draftsperso	on's Patent Drawing Review (PTO-	-948) attached	
1) hereto or 2) to Paper No./Mail Date	(3)		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1.6 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing to 37 CFR 1 1216	ngs in the front (not t	he back) of
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	it of BIOLOGICAL MATERIAL r	nust ha submitted	. Note the
A44 1 - 44 N			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Information	otont Acalla it is	TO 450'
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 5. ☐ Notice of Informal P 6. ☐ Interview Summary 		10-152)
Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paner No (Mail Dat	ė ,	
4. Examiner's Comment Regarding Requirement for Deposit	8 M Evaminer's Stateme	nt of Doggona for All	laaa
of Biological Material	8. ⊠ Examiner's Stateme 9.	TIL OF INGASONS FOR ALL	rowance

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DETAILED ACTION

This Office Action is in response to the Response to Office filed September 13,
 Claims 1-15 are now pending.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Mr. Stephen E. Johnson on October 25, 2004.

3. The application has been amended as follows:

Cancel claims 1-9 and 11-15 without prejudice.

Allowable Subject Matter

- 4. Claim 10 is allowed.
- 5. The following is an examiner's statement of reasons for allowance:

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The present claims are allowable over the closest references: Nienhaus et al. (US 5,670,600) in view of Nothnagel (EP 0 523 993 A1).

The present invention relates to an aqueous coating composition comprising (1) a first polymer comprising

(1) a first polymer	(a) 16-25 wt% of a monoethylenically unsaturated monomer containing one or more acidic functional groups [carboxylic, sulfonic, or phosphoic groups]		
	(b) 0-60 wt% of a (meth)acrylic monomer containing one or more pendant reactive functional groups [hydroxy, thiol, or amino groups]		
	(c) 0-70 wt% of one or more vinylaromatic monomers		
	(d) 15-90 wt% of one or more C _{1:20} alkyl (meth)acrylate ester monomers		
	(e) 0-10 wt% of one or more other copolymerizable monomers		
(2) a polyfunctional [isocyanate, carboo	crosslinker agent comprising pendant functional groups liimide, aziridinyl, or epoxy groups]		
(3) 0.1-15 wt% of c	coalescing agent		
(4) 0-10 wt% of one agents, alkali-solub	ore more additives [waxes, surfactants, defoamers, leveling le resins, or plasticizers		
(5) 50-99 wt% of wa	ater		
wherein the first pol	ymer has M _n from greater than 50,000 up to 2,000,000		
the polyfunctional co functional group per the first polymer	rosslinker agent has from 0.2 to 5 equivalents of pendent equivalent of corresponding pedant reactive functional group in		
the combined amou and (5) add up to 10	nt of (1) and (2) is from 10-90 % and the sum of (1), (2), (3), (4),		

(summary of claim 10)

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Nienhaus et al. disclose a aqueous two component polyurethane coating comprising (A) a water-dilutable polyacrylate resin containing (a1) 20-60 wt% of one or more esters selected from the group consisting of esters of acrylic acid, esters of methacrylic acid, and mixtures thereof, (a2) 10-40 wt% of one or more ethylenically unsaturated monomer, (a3) 1-25 wt% one or more vinyl esters of α -branched monocarboxylic acid, (a4) 1-25 wt% at least one reaction product of acrylic acid and/or methacrylic acid with the glycidyl ester of an α -branched monocarboxylic acid, (a5) 1-15 wt% of one or more ethylenically unsaturated monomer having at least one carboxylic group per molecule, and (a6) 5-30 wt% an ethylenically unsaturated monomer and (B) a polyisocyanate component as a crosslinking agent, wherein the acrylic, wherein the polyacrylate resin has a number average molecular weight of from 2,500 to 20,000 (col. 8, lines 45-47; claims 1 and 5). Nienhaus et al. further disclose that the coating composition further comprises a thickening agent, a wetting agent, an antifoam (col. 11, lines 15-32). However, Nienhaus et al. do not teach or fairly suggest an aqueous coating composition comprising 16-25 wt% of ethylenically unsaturated monomer having at least one carboxylic group per molecule.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons

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for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the 6.

examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-

1098. The examiner can normally be reached on Monday to Friday.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu, can be reached on 571-272-1114.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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LING-SUI CHOI PRIMARY EXAMINER

Ling-Siu Choi

October 25, 2004

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